

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp, which has two ends, for emitting a light beam onto said object, a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a transparency, disposed between said lamp and said object, having a first surface and a second surface, said first surface receiving said light beam, said second surface comprising a plurality of refractors ~~for refracting said light beam~~, said light beam emitted from said lamp passing through said transparency first and then onto said object,

~~wherein said light beam is substantially collimated before passing through said transparent, and after said light beam passes through said transparent, the plurality of refractors is configured to refract~~ refracts said light beam to deflect toward the two ends of the object, ~~to facilitate said light beam to dispread substantially equally onto said object.~~

2. (Previously Presented) A scanning device for scanning an object that has two ends, comprising:

a lamp, which has two ends, for emitting a light beam onto said object, a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a tube, surrounding with said lamp, of variable thickness comprising two ends and a central part, thickness at said two ends being larger than thickness at said central part for refracting said light beam,

wherein said light beam is substantially collimated before passing through said tube, and after said light beam passes through said tube, said tube refracts said light beam to deflect toward the two ends of the object, to facilitate said light beam to dispread substantially equally onto said object.

3. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp, which has two ends, for emitting a light beam onto said object, a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a tube, equally surrounding with said lamp, ~~comprising a surface of the tube facing said~~ object, ~~said surface comprising a plurality of refractors for refracting said light beam,~~

~~wherein said light beam is substantially collimated before passing through said tube, and after said light beam passes through said tube, said plurality of refractors~~ is configured to refract ~~reflects~~ said light beam to deflect toward the two ends of the object, ~~to facilitate said light beam to dispread substantially equally onto said object.~~

4. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp, which has two ends, for emitting a light beam onto said object, a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a convex plate, disposed over said lamp, ~~for reflecting said light beam onto said object,~~
wherein ~~said light beam is substantially collimated before reflecting by said convex, and~~
~~after said light beam reaches said convex,~~ said convex plate is configured to reflect ~~reflects~~ said light beam to deflect toward the two ends of the object, ~~to facilitate said light beam to disspread substantially equally onto said object.~~

5. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp, which has two ends, for emitting a light beam onto said object, a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a reflector, disposed over said lamp, having a surface facing said lamp, said surface comprising a plurality of identical reflection units ~~for reflecting said light beam onto said object,~~

wherein ~~said light beam is substantially collimated before reflecting by said plurality of~~
~~reflection units, and after said light beam reaches said plurality of reflection units,~~ said reflector
is configured to reflect ~~reflects~~ said light beam to deflect toward the two ends of the object, ~~to~~
~~facilitate said light beam to disspread substantially equally onto said object.~~

6. (Previously Presented) The scanning device of claim 1, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

7. (Previously Presented) The scanning device of claim 2, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

8. (Previously Presented) The scanning device of claim 3, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

9. (Previously Presented) The scanning device of claim 4, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

10. (Previously Presented) The scanning device of claim 5, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.